Report No.: SGRL / CM /842/ 14 - 15

16.05.2014

TEST REPORT

Client* : The Assistant Executive Engineer
Rajarajeshwarinagara Zone
Bruhath Bengaluru Mahanagara Palike
Bangalore

Client Reference* : AEE /(P)/RRNZ/BBMP/PR/113/2013-14, dt:27.02.2014

Job Reference* : EE/QC/Div-2/PR/324/11-12,dated 18.03.2013

CSR No. : CM 276, dt: 16.05.2014

Name of the Project* : Repair & painting for toilet & special repair Rock garden at J.P park in ward no.17

Contractor* : M/s. K R I D L

Source of Sample : Sample supplied of TPIA

Sample ID* : J.P park in ward no.17 – PCC 1:4:8 & M15 for Concrete work

Type of Sample : Sand

Name of Test : Sieve Analysis

Date of Receipt : 16.05.2014

Date of Testing : 16.05.2014

Test Method : IS : 2386 (Part 1) 1963

Sl. No.	Sieve Size (mm)	Weight Retained	% Weight Retained	Cumulative % of Weight Retained	% of Weight Passing	Specifications as Per MoRT&H
1	10	0.00	0.00	0.00	100.00	100.00
2	4.75	13.59	2.72	2.72	97.28	90-100
3	2.36	46.89	9.38	12.10	87.90	75-100
4	1.18	89.56	17.91	30.01	69.99	55-90
5	0.60	149.78	29.96	59.96	40.04	35-59
6	0.30	129.50	25.90	85.86	14.14	8-30
7	0.15	66.89	13.38	99.24	0.76	0-10

The Sand tested conforms to Zone II as per MoRT& H (Fourth Revision)

For Struct Geotech Research Laboratories Private Limited

Authorised Signature
B. Venkata Subramanyam
Executive Director

Note: (i) The Results relate only to the items tested (ii) This test report should not be reproduced except in full, without written approval of this laboratory (iii) Any correction invalidates this report (iv)Any Query regarding the report must be reported immediately.

***Information as furnished by the TPIA**

for n/a
AE

Report No.: SGRL / CM /840/ 14 - 15 16.05.2014

TEST REPORT

Client*	:	The Assistant Executive Engineer Rajarajeshwarinagara Zone Bruhath Bengaluru Mahanagara Palike Bangalore
Client Reference*	:	AEE /(P)/RRNZ/BBMP/PR/113/2013-14, dt:27.02.2014
Job Reference *	:	EE/QC/Div-2/PR/324/11-12, dated 18.03.2013
CSR No.	:	CM 276, dt: 16.05.2014
Name of the work*	:	Repair & painting for toilet & special repair Rock garden at J.P park in ward no.17
Contractor*	:	M/s. K R I D L
Source of Sample	:	Sample supplied of TPIA
Sample Id*	:	J.P park in ward no.17 – PCC 1:4:8 for Concrete work
Date of receipt	:	16.05.2014
Date of testing	:	16.05.2014
Type of sample	:	Coarse Aggregate - 40mm and down size
Name of test	:	Sieve Analysis

IS Sieve Designation	Cumulative Percent Passing		Test Method
	Test Result	Requirement as per Table – 1000-1 of MoRT&H	
63.00 mm	100	100	IS: 2386 (Part 1) - 1963
40.00 mm	96.95	95 -100	
20.00 mm	37.88	30 - 70	
10.00 mm	25.18	10 - 35	
4.75 mm	4.18	0 - 5	

For Struct Geotech Research Laboratories Pvt. Ltd.,

Authorized Signature
B. Venkata Subramanyam
Quality Manager

Note: (i) The Results relate only to the items tested (ii) This test report should not be reproduced except in full, without written approval of this laboratory (iii) Any corrections invalidates this report (iv) Any Query regarding the report must be reported immediately
***Information as furnished by TPIA**

Report No.: SGRL / CM /841/ 14 - 15

16.05.2014

TEST REPORT

Client*	:	The Assistant Executive Engineer Rajarajeshwarinagara Zone Bruhath Bengaluru Mahanagara Palike Bangalore
Client Reference*	:	AEE /(P)/RRNZ/BBMP/PR/113/2013-14, dt:27.02.2014
Job Reference *	:	EE/QC/Div-2/PR/324/11-12, dated 18.03.2013.
CSR No	:	CM 276, dt: 16.05.2014
Name of the work*	:	Repair & painting for toilet & special repair Rock garden at J.P park in ward no.17
Contractor*	:	M/s. K R I D L
Source of Sample	:	Sample supplied of TPIA
Sample Id*	:	J.P park in ward no.17 – M15 for Concrete work
Date of receipt	:	16.05.2014
Date of testing	:	16.05.2014
Type of sample	:	Coarse Aggregate - 20mm and down size
Name of test	:	Sieve Analysis

IS Sieve Designation	Cumulative Percent Passing		Test Method
	Test Result	Requirement as per Table – 1000-1 of MoRT&H	
40.00 mm	100	100	IS: 2386 (Part 1) - 1963
20.00 mm	98.24	95-100	
10.00 mm	35.21	25-55	
4.75 mm	2.18	0-10	

For Struct Geotech Research Laboratories Pvt. Ltd.,

Authorized Signature
B. Venkata Subramanyam
Quality Manager

Note: (i) The Results relate only to the items tested (ii) This test report should not be reproduced except in full, without written approval of this laboratory (iii) Any corrections invalidates this report (iv) Any Query regarding the report must be reported immediately

***Information as furnished by TPIA**

No.: 588, 2nd Main, 6th Block, Hosekerehalli Cross, Banashankari III Stage, II Phase, Bangalore- 560 085

Report No.: SGRL / CM /843/ 14-15 27.05.2014

TEST REPORT

Client* : The Assistant Executive Engineer
Rajarajeshwarinagara Zone
Bruhath Bengaluru Mahanagara Palike
Bangalore

Client Reference* : AEE /(P)/RRNZ/BBMP/PR/113/2013-14, dt:27.02.2014

Job Reference * : EE/QC/Div-2/PR/324/11-12, dated 18.03.2013

CSR No : CM 276, dt: 16.05.2014

Name of the work* : Repair & painting for toilet & special repair Rock garden at J.P park in ward no.17

Contractor* : M/s. K R I D L

Source of Sample : Sample supplied of TPIA

Sample Id* : J.P park in ward no.17 – PCC 1:4:8 & M15 for Concrete work

Date of receipt : 16.05.2014

Date of testing : 16.05.2014 to 27.05.2014

Type of Sample : Cement

Type of Cement*: OPC **Grade of Cement*:** 53 **Brand*:** Birla Super

Sl. No.	Description	Test Result	Requirements as per IS: 12269-1987	Test Method
1.	Setting Time			
	a) Initial Setting Time	195 min	Min.30 min	IS 4031 (Part V)
	b) Final Setting Time	410 min	Max.600 min	
2.	Standard Consistency	30.0 %	-	IS: 4031 (Part IV)
3.	Compressive Strength (i) 3 days (72 ± 1h) (average of three results)	28.0 N/mm^2	Not less than 27 N/mm^2	IS: 4031 (Part VI)

For Struct Geotech Research Laboratories Pvt. Ltd.,

Authorized Signature
B. Venkata Subramanyam
Executive Director

Note: (i) The Results relate only to the items tested (ii) This test report should not be reproduced except in full, without written approval of this laboratory (iii) Any corrections invalidates the test report (iv) Any Query regarding the report must be reported immediately.

***Information as furnished by TPIA**

Report No.: SGRL/CM/844/14-15 27.05.2014

TEST REPORT

Client*	:	The Assistant Executive Engineer Rajarajeshwarinagara Zone Bruhath Bengaluru Mahanagara Palike Bangalore
Client Reference*	:	AEE /(P)/RRNZ/BBMP/PR/113/2013-14, dt:27.02.2014
Job Reference *	:	EE/QC/Div-2/PR/324/11-12, dated 18.03.2013
CSR No	:	CM 276, dt: 16.05.2014
Name of the work*	:	Repair & painting for toilet & special repair Rock garden at J.P park in ward no.17
Contractor*	:	M/s. K R I D L
Source of Sample	:	Sample supplied of TPIA
Sample Id*	:	J.P park in ward no.17 – for Masonary work
Date of receipt	:	16.05.2014
Date of testing	:	27.05.2014
Type of Sample	:	Burnt Clay Bricks

I. COMPRESSIVE STRENGTH

Sl. No	Brick ID	Measured Size (mm)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average (N/mm^2)	Test Method
1	CM276-I1	224.9 x 101.1	138	6.07	6.0	IS 3495 (Part 1) 1992
2	CM276-I2	223.56 x 101	136	6.02		
3	CM276-I3	224.6 x 101.2	137	6.03		

For Struct Geotech Research Laboratories Private Limited

Authorised Signature
B. Venkata Subramanyam
Executive Director

Note: (i) The Results relate only to the items tested (ii) This test report should not be reproduced except in full, without written approval of this laboratory (iii) Any corrections invalidates this report (iv) Any Query regarding the report must be reported immediately

**** End of Test Report****

Report No.: SGRL / CM / 845/ 14-15

27.05.2014

TEST REPORT

Client* : The Assistant Executive Engineer
Rajarajeshwarinagara Zone
Bruhath Bengaluru Mahanagara Palike
Bangalore

Client Reference* : AEE /(P)/RRNZ/BBMP/PR/113/2013-14, dt:27.02.2014

Job Reference* EE/QC/Div-2/PR/324/11-12, dt: 18.03.2013

CSR No. : CM 276, dt: 16.05.2014

Name of the Work* : Repair & painting for toilet & special repair Rock garden at J.P park in ward no.17

Contractor* : M/s. K R I D L

Source of sample : Sample supplied of TPIA

Sample ID* : J.P park in ward no.17 – Public path way work

Grade of Concrete* : CC 1:2:4

Date of Receipt : 16.05.2014

Date of Testing : 27.05.2014

Name Test : Concrete Core Compressive Strength of precast solid concrete kerb stone

Technical : IS : 516 - 1959, SP - 24 : 1983

Sl. No.	Identification*	Core Details				H / D ratio	Correction factor for H/D	Failure Load (kN)	Core Strength (N/mm^2)	Corrected Core Strength for Diameter (N/mm^2)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
		Dia, D (mm)	Height, H (mm)	Weight (kg)	Density (kg/m^3)							
1	CM 276-e_1	74.0	139.14	1.40	2340.7	1.88	0.99	62.1	14.45	15.60	15.40	19.25
2	CM 276-e_2	74.0	139.25	1.45	2422.4	1.88	0.99	63.4	14.75	15.93	15.73	19.66
3	CM 276-e_3	74.0	140.21	1.46	2422.4	1.89	0.99	62.1	14.45	15.60	15.42	19.28

Correction factor : from Fig. 1 of IS: 516 - 1959
Core Strength : Failure Load / Cross sectional area of Core
Corrected Core Strength for Diameter : 1.08 x Core Strength
Corrected Cylinder Compressive Strength : Corrected Core Strength x Correction factor
Equivalent Cube Compressive Strength : 1.25 x Corrected Cylinder Compressive Strength

For Struct Geotech Research Laboratories Private Limited

Authorized Signature

B. Venkata Subramanyam
Executive Director

Note: (i) The Results relate only to the items tested (ii) This test report should not be reproduced except in full, without written approval of this laboratory (iii) Any corrections invalidates this report (iv) Any Query regarding the report must be reported immediately.

*** Information as furnished by TPIA**

****** end of the test report ******